Performance of Operating Systems

Task 1 [6 marks]

There are many factors that can affect the performance of an operating system. Three of these are the hardware, malware and virtual memory. For each of these, give an example of how they could reduce OS performance.

Interface	Example
Hardware	
Malware	
Virtual Memory	

Task 2 [4 marks]

Disk defragmenters are a popular utility program to improve hard disk performance. However, sometimes running this program can take several hours. Identify two things that can affect how quickly the defragmenter can run.

1. _____

2. _____

Task 3 [4 marks]

Anti-virus is another popular utility program. It helps to improve the security of your system to prevent viruses. Scanning the hard disk can take a very long time sometimes though. Identify two things that can affect how quickly the anti-virus can run.

1. _____

2. _____

Task 4 [6 marks]

Below are several statements about different utility programs. Identify which of these statements are true and which are false.

	True	
1. Disk defragmenters can improve the performance of both hard disk drives a solid state drives.	☐	☐
2. Having a very large hard disk drive can slow down the performance of your firewall.	☐	☐
	☐	☐

3. The backup tool and software updater can both be affected by the speed of your internet connection.
4. Regularly running your disk/registry cleaner and disk defragmenter will reduce how long it takes for these tools to perform their task.